



Roy F. Weston, Inc.
4th Floor
67 Batterymarch Street
Boston, Massachusetts 02110-3206
617-204-2700 • Fax 617-204-2701

05 February 1997 Work Order No. 03886-118-002-0700-00

BREAK:

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Superfund Records Center

SITE: Ma Bedfile

Mr. Maurice Beaudoin, Resident Engineer Department of the Army New England Division, Corps of Engineers New Bedford Resident Office 103 Sawyer Street New Bedford, MA 02746

Reference:

Contract No. DACW33-95-D-0004

Delivery Order No. 0002

New Bedford Harbor Superfund Site

Sawyer Street Site O & M DCN-NBH-020597-AAIQ

Subject:

Quarterly Groundwater Sampling Results - Fourth Quarter 1996

Dear Mr. Beaudoin:

This is a Letter Report summarizing quarterly groundwater sampling activities and results at the New Bedford Harbor Sawyer Street Site. Seven on-site groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4A, MW-5, MW-6, and MW-7A) were sampled on 19 and 20 December 1996. The attached Site Plan shows the locations of on-site monitoring wells. Table 1 summarizes the groundwater samples collected. Table 2 summarizes the final field parameters measured at each location after well purging, but prior to sample collection. Table 3 summarizes the analytical results of the sampling.

As shown on Table 3, the total and dissolved concentrations of cadmium in MW-3 exceeded the cadmium U.S. EPA Maximum Contaminant Level (MCL) of 5.0 parts per billion (ppb). No other exceedances of MCLs were noted. Data validation notes and the laboratory data transmittals for the 19 and 20 December 1996 groundwater sampling results are attached.

During the groundwater sampling event on 19 and 20 December 1996, the depression area located east of the Confined Disposal Facility (CDF) was inundated with standing water to a maximum depth of approximately 2.0 feet. Monitoring wells MW-2 and MW-3 are located in this area, and the depth of standing water in the vicinity of these two wells was observed to be approximately 1.5 feet. Standing water in the vicinity of these wells may affect the natural, measured depth to water in the wells and may also affect the quality of groundwater in this area. The depression area is utilized as a discharge area for rain water which accumulates on the covers of CDF cells.



Mr. Maurice Beaudoin U.S. Army Corps of Engineers 2

05 February 1997

Please call me at (617) 204-2700 if you have any questions regarding this Letter Report.

Very Truly Yours,

ROY F. WESTON, INC.

James S. Chow

Assistant Geoscientist II

cc: T. Abdella (WESTON)

L. Lemay [WESTON DCN File (2)]

M. Otis (CENED)
Project File (BMA)

Inter-Office Memorandum



TO: James Chow

FROM: Diane Quigley

DATE: 30 January 1997

PROJECT: New Bedford Harbor/Sawyer Street Site W.O. NO.: 03886-118-002-0700-00

SUBJECT: New Bedford Harbor/Sawyer Street Site

Data Validation

Data submitted by Lancaster Laboratories for quarterly groundwater samples 001-1296 through 007-1296, 101-1296 and 202-1296 was reviewed. These samples were collected on 12/19/96 and 12/20/96. Chain-of-custody documents were reviewed to verify holding times were met. Method blank and field blanks, surrogate recoveries, laboratory spike and matrix spike recoveries and duplicate sample results were reviewed. The following discrepancies were noted:

A. Metals

- The percent RPD (76%) for lead did not meet criteria in unfiltered field duplicate samples <u>001-1296</u> and <u>101-1296</u>. Both results should be estimated (J).
- 2) Lead recovery in the unfiltered MSD (126.4) was greater than the QC limits (80-120). Lead recovery in the filtered MS and MSD was greater than the QC limits.
- Chromium and lead were detected in the unfiltered samples 001-1296 and 007-1296 but non-detected in the filtered samples.
- 4) Copper was detected in filtered sample 101-1296 but not in filtered duplicate sample 001-1296. Both results should be estimated (J) and (UJ).
- 5) Lead was detected at a higher level (.0093J) in unspiked filtered sample 004-1296 than in unspiked unfiltered sample 004-1296 (.0012J). Lead was not detected in the filtered or unfiltered duplicate samples 004-1296.
- 6) Lead was detected in filtered samples <u>002-1296</u> and <u>003-1296</u> but not in unfiltered samples 002-1296 and 003-1296.
- 7) No target compounds were detected in the unfiltered or filtered rinsate or method blanks.



Page: 1 of 3

LLI Sample No. ww 2638015 Collected: 12/19/96 at 10:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

001-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

001 -- SDG#: NBH16-02

CAT

NO. ANALYSIS NAME

1749 Cadmium

1751 Chromium 1753 Copper

1055 Lead (furnace method)

0173 PCBs in Water Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD RESULTS DETECTION LIMIT UNITS

0.0027 mg/1 0.0043 mg/1 N.D. 0.0074 J N.D. 0.0038 mg/1 0.0049 < 0.0012 mg/1

1. See Page

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

George Charles and Artist Charle

Questions? Contact your Client Services Representative F. Bradley Ayars 07:59:22 D 0003 12 at (717) 656-2300 123814 547122 0.00 00010504 ASR000 232

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Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates

2015 Pel 8 0 14





LLI Sample No. ww 2638015 Collected: 12/19/96 at 10:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

001-1296 Grab Water Sample

New Bedford Harbor, MA - USACE 001-- SDG#: NBH16-02

PCB-1260

0645

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

CAT	,		AS	RECEIVED
NO.	ANALYSIS	NAME	RESULTS	METHOD DETECTION LIMIT UNITS
PCBs	in Water			
0639 0640 0641 0642 0643 0644	PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254		N.D. N.D. N.D. N.D.	0.054 ug/l 0.15 ug/l 0.060 ug/l 0.13 ug/l 0.048 ug/l
0044	PCD-1254		N.D.	0.18 ug/l

0.045 ug/1 Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

N.D.

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs

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Analysis Repo

LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. WW 2638015 Collected: 12/19/96 at 10:30 by JC

Submitted: 12/23/96

001-1296 Grab Water Sample

New Bedford Harbor, MA - USACE 001-- SDG#: NBH16-02

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1751 1753	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/03/97 0207 01/03/97 0207 01/03/97 0207 01/02/97 1346	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
1055	Lead (furnace method)	SW-846 7421	1	01/07/97 1404	Elizabeth A. Tomlinson
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A		01/04/97 0903	Jennifer Garrett
0173	PCBs in Water	SW-846 8081	1	12/31/96 1433	Donna M. Lewis
0817	Water Sample Pest. Extraction	SW-846 3510B		12/24/96 0700	Lisa J. Cooke





Page: 1 of 3

LLI Sample No. WW 2638024 Collected: I2/19/96 at 14:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

003-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

003-- SDG#: NBH16-08

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED CAT METHOD NO. ANALYSIS NAME **RESULTS** DETECTION LIMIT UNITS

1749 Cadmium 0.0054 J 0.0027 mg/1 1751 Chromium N.D. 0.0043 mg/11753 Copper 0.0038 mg/1 0.052 N.D. US 1055 Lead (furnace method) 0.0060 mg/1

The quantitation limit for lead was increased due to the nature of the sample matrix.

0173 PCBs in Water 1. See Page 2

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 at (717) 656-2300 123814 547122 08:00:57 D 0003 12 0.00 00010504 ASR000



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P.O. LL-2139-A7

Rel. 03886-118-002



Page: 2 of 3

LLI Sample No. WW 2638024 Collected: 12/19/96 at 14:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

003-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

003-- SDG#: NBH16-08

ANALYSIS NAME

AS RECEIVED

METHOD

RESULTS DETECTION LIMIT UNITS

Account No: 08947

Devons MA 01433

Roy F. Weston, Inc. Bldg. 3701 Barnum Road

PCBs in Water

CAT

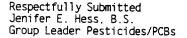
NO.

0639 0640 0641 0642 0643 0644 0645	PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	N.D. 0. N.D. 0. N.D. 0. 0.100 J 0. N.D. 0.	060 13 048	ug/l ug/l ug/l ug/l ug/l ug/l
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Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 at (717) 656-2300





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LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. ww 2638024 Collected: 12/19/96 at 14:30 by JC

Submitted: 12/23/96

003-1296 Grab Water Sample

New Bedford Harbor, MA - USACE 003-- SDG#: NBH16-08

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

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CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749 1751 1753 1848	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/03/97 0229 01/03/97 0229 01/03/97 0229 01/02/97 1346	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	01/09/97 0841 01/04/97 0903	Brenda L. Buckwalter Jennifer Garrett
0173 0817	PCBs in Water Water Sample Pest. Extraction	SW-846 8081 SW-846 3510B	1	12/31/96 1747 12/24/96 0700	Donna M. Lewis Lisa J. Cooke





Page: 1 of 3

LLI Sample No. WW 2638019 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

004-1296 Unspiked Grab Water Sample

New Bedford Harbor, MA - USACE 004-- SDG#: NBH16-06BKG

CAT

NO. ANALYSIS NAME

1749 Cadmium 1751 Chromium 1753

Copper 1055 Lead (furnace method)

0173 PCBs in Water

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD RESULTS DETECTION LIMIT UNITS

N.D. 0.0027 mg/1 N.D. 0.0043 mg/10.0038 mg/1 N.D. 0.0012 J 0.0012 mg/1 1.

See Page

1 COPY TO Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 08:00:05 D 0003 12 123814 547122 0.00 00010504 ASR000



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LLI Sample No. ww 2638019 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

004-1296 Unspiked Grab Water Sample

New Bedford Harbor, MA - USACE 004-- SDG#: NBH16-06BKG

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED CAT **METHOD** NO. ANALYSIS NAME **RESULTS**

DETECTION LIMIT UNITS

PCBs in Water

0639 PCB-1016 N.D. 0.054 ug/1 0640 PCB-1221 N.D. 0.15 ug/1 0641 PCB-1232 0.060 N.D. ug/1 0642 PCB-1242 N.D. 0.13 ug/1 0643 PCB-1248 N.D. 0.048 ug/1 0644 PCB-1254 N.D. 0.18 ug/l 0645 PCB-1260 N.D. 0.045 ug/1

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation

limits obtainable.

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



Lancapter Lab Linator e. Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs

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Lancaster Laboratories A division of Thermo Analytical Inc.

LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638019 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96

004-1296 Unspiked Grab Water Sample

New Bedford Harbor, MA - USACE

004-- SDG#: NBH16-06BKG

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

NO NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010A	1	01/03/97 0145	Donna R. Sackett
1751	Chromium	SW-846 6010A	1	01/03/97 0145	Donna R. Sackett
1753	Copper	SW-846 6010A	1	01/03/97 0145	Donna R. Sackett
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/02/97 1346	Christine M. Conlin
1055	Lead (furnace method)	SW-846 7421	1	01/07/97 1259	Elizabeth A. Tomlinson
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A		01/04/97 0903	Jennifer Garrett
0173	PCBs in Water	SW-846 8081	1	12/30/96 1045	Jenifer Hess
0817	Water Sample Pest. Extraction	SW-846 3510B		12/24/96 0700	Lisa J. Cooke





Page: 1 of 3

LLI Sample No. WW 2638021 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/13/97 Discard: 2/13/97

004-1296 Matrix Spike Grab Water Sample

New Bedford Harbor, MA - USACE 004-- SDG#: NBH16-06MS

CAT

NO. ANALYSIS NAME

1749 Cadmium 1751 Chromium 1753 Copper

1055 Lead (furnace method)

0173 PCBs in Water

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD RESULTS DETECTION LIMIT UNITS 0.050 0.0027 mg/1 0.0043 mg/1 0.197 0.250 0.0038 mg/1 0.0224 0.0012 mg/l See Page

1 COPY TO Roy F. Weston, Inc. 1 COPY TO Roy F. Weston, Inc. 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 08:00:23 D 0003 12 123814 547122 0.00 00010504 ASR000



Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates

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LLI Sample No. WW 2638021 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

PCB-1254

PCB-1260

0644

0645

004-1296 Matrix Spike Grab Water Sample

New Bedford Harbor, MA - USACE

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

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P.O. LL-2139-A7 Rel. 03886-118-002

004-- SDG#: NBH16-06MS

AS RECEIVED CAT METHOD NO. ANALYSIS NAME **RESULTS** DETECTION LIMIT UNITS PCBs in Water 0639 PCB-1016 5.5 0.054 ug/1 0640 PCB-1221 0.15 N.D. ug/1 0641 PCB-1232 N.D. 0.060 ug/1 0642 PCB-1242 N.D. 0.13 ug/1 0643 PCB-1248 N.D. 0.048 ug/1

5.7 0.045 Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

N.D.

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs







LABORATORY CHRONICLI

Page: 3 of 3

LLI Sample No. WW 2638021 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96

004-1296 Matrix Spike Grab Water Sample

New Bedford Harbor, MA - USACE

004-- SDG#: NBH16-06MS

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749 1751 1753 1848	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/03/97 0155 01/03/97 0155 01/03/97 0155 01/02/97 1346	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
1055 5704	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	01/07/97 1321 01/04/97 0903	Elizabeth A. Tomlinson Jennifer Garrett
0173 0817	PCBs in Water Water Sample Pest. Extraction	SW-846 8081 SW-846 3510B	1	12/30/96 1124 12/24/96 0700	Jenifer Hess Lisa J. Cooke

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Page: 1 of 3

LLI Sample No. WW 2638022 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

004-1296 Matrix Spike Duplicate Grab Water Sample

New Bedford Harbor, MA - USACE

004-- SDG#: NBH16-06MSD

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

		AS REC	CEIVED		
CAT NO.	ANALYSIS NAME	RESULTS	METHOD DETECTION LIM	IT UNITS	
1749 1751 1753 1055 0173	Cadmium Chromium Copper Lead (furnace method) PCBs in Water	0.050 0.198 0.250 0.0265	0.0027 0.0043 0.0038 0.0012	mg/l mg/l mg/l mg/l See Page	2

1 COPY TO Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars 08:00:35 D 0003 12 at (717) 656-2300 123814 547122 232 0.00 00010504 ASR000



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LLI Sample No. WW 2638022 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

0643

0644

0645

004-1296 Matrix Spike Duplicate Grab Water Sample

New Bedford Harbor, MA - USACE

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

004-- SDG#: NBH16-06MSD

CAT			AS	RECEIVED
NO.	ANALYSIS	NAME	RESULTS	METHOD DETECTION LIMIT UNITS
PCBs	in Water			
0639 0640 0641 0642	PCB-1016 PCB-1221 PCB-1232 PCB-1242		5.4 N.D. N.D.	0.054 ug/l 0.15 ug/l 0.060 ug/l

PCB-1242 N.D. 0.13 ug/1 PCB-1248 N.D. 0.048 ug/1 PCB-1254 N.D. 0.18 ug/1 PCB-1260 6.1 0.045 ug/l Due to insufficient sample size, we were unable to report our usual

quantitation limits. The values reported represent the lowest quantitation limits obtainable.

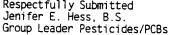
> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 at (717) 656-2300

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Respectfully Submitted



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LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. ww 2638022 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

004-1296 Matrix Spike Duplicate Grab Water Sample

New Bedford Harbor, MA - USACE 004-- SDG#: NBH16-06MSD

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010A	1	01/03/97 0158	Donna R. Sackett
1751	Chromium	SW-846 6010A	1	01/03/97 0158	Donna R. Sackett
1753	Copper	SW-846 6010A	1	01/03/97 0158	Donna R. Sackett
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/02/97 1346	Christine M. Conlin
1055	Lead (furnace method)	SW-846 7421	1	01/07/97 1332	Elizabeth A. Tomlinson
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A		01/04/97 0903	Jennifer Garrett
0173	PCBs in Water	SW-846 8081	1	12/31/96 0848	Jenifer Hess
0817	Water Sample Pest. Extraction	SW-846 3510B	1	12/24/96 0700	Lisa J. Cooke



The residual grant and continue to protect years of equipment



Page: 1 of 3

LLI Sample No. WW 2638023 Collected: 12/20/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

005-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

005 -- SDG#: NBH16-07

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

AS RECEIVED

P.O. LL-2139-A7 Rel. 03886-118-002

NO.	ANALYSIS NAME	RESULTS	METHOD DETECTION LIM	IIT UNITS	
1749 1751 1753	Cadmium Chromium Copper	N.D. N.D. N.D.	0.0027 0.0043 0.0038	mg/] mg/] mg/]	
1055	Lead (furnace method) The quantitation limit for lead was incredue to the nature of the sample matrix.	N.D	0.0060		
0173	PCBs in Water		1.	See Page	:

1 COPY TO 1 COPY TO 1 COPY TO Roy F. Weston, Inc. Roy F. Weston, Inc. Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

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Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 08:00:47 D 0003 12 123814 547122 0.00 00010504 ASR000



Carrouter cappinatorier 2425 f.e.w.e. Liens Ake 80 Box 10425 HD 804 (142) Cancaster, AA 11503-0423 [115-656-0700] | Fig. 111-158-08-11 Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates



LLI Sample No. WW 2638023 Collected: 12/20/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

005-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

005-- SDG#: NBH16-07

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED CAT NO. ANALYSIS NAME

METHOD **RESULTS** DETECTION LIMIT UNITS

PCBs in Water

0639 0640 0641 0642 0643 0644	PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254	N.D. N.D. N.D. N.D. N.D.	0.054 0.15 0.060 0.13 0.048 0.18	ug/l ug/l ug/l ug/l ug/l ug/l
0645	PCB-1260	N D	0.045	ug/

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



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Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs

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LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638023 Collected: 12/20/96 at 14:00 by JC

Submitted: 12/23/96

005-1296 Grab Water Sample

New Bedford Harbor, MA - USACE 005-- SDG#: NBH16-07

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749 1751 1753 1848	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/03/97 0226 01/03/97 0226 01/03/97 0226 01/02/97 1346	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
1055	Lead (furnace method)	SW-846 7421	1	01/09/97 0830	Brenda L. Buckwalter
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	01/04/97 0903	Jennifer Garrett
0173	PCBs in Water	SW-846 8081	1	12/31/96 1708	Donna M. Lewis
0817	Water Sample Pest. Extraction	SW-846 3510B	1	12/24/96 0700	Lisa J. Cooke



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P.O. LL-2139-A7

Rel. 03886-118-002



Page: 1 of 3

LLI Sample No. ww 2638017 Collected: 12/19/96 at 11:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

006-1296 Grab Water Sample

New Bedford Harbor, MA - USACE 006-- SDG#: NBH16-04

ANALYSIS NAME

AS RECEIVED

N.D.

METHOD RESULTS DETECTION LIMIT UNITS N.D. 0.0027 mg/1 0.0043 mg/1 N.D. N.D. 0.0038 mg/1

1.

0.0012 mg/1

See Page

Account No: 08947

Devons MA 01433

Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Copper 1055 Lead (furnace method) 0173 PCBs in Water

Cadmium

Chromium

CAT

NO.

1749

1751

1753

1 COPY TO Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

and method destination of this polar dispersion

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 07:59:45 D 0003 12 123814 547122 123814 547122 0.00 00010504 ASR000



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510 4556-2300 Fax 1010-55000 Kr Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates





LLI Sample No. ww 2638017 Collected: 12/19/96 at 11:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

006-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

006-- SDG#: NBH16-04

ANALYSIS NAME

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD RESULTS DETECTION LIMIT UNITS

PCBs in Water

CAT

NO.

0639 0640 0641 0642 0643 0644 0645	PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	N.D. 0.054 N.D. 0.15 N.D. 0.060 N.D. 0.13 N.D. 0.048 N.D. 0.18 N.D. 0.045	ug/l ug/l ug/l ug/l ug/l ug/l
--	--	---	--

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



MEMBER
0425 New Hulland He
PO Box 10445 no box (144). Cardelter, 64,67806-1428 TIT ESECTOR SAX (117,656-1564)

Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs

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Lancaster Laboratories A division of Thermo Analytical Inc.

LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638017 Collected: 12/19/96 at 11:30 by JC

Submitted: 12/23/96

006-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

006-- SDG#: NBH16-04

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

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CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749 1751 1753 1848	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/03/97 0220 01/03/97 0220 01/03/97 0220 01/02/97 1346	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
1055	Lead (furnace method)	SW-846 7421	1	01/07/97 1425	Elizabeth A. Tomlinson
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A		01/04/97 0903	Jennifer Garrett
0173	PCBs in Water	SW-846 8081	1	12/31/96 1551	Donna M. Lewis
0817	Water Sample Pest. Extraction	SW-846 3510B		12/24/96 0700	Lisa J. Cooke





Page: 1 of

LLI Sample No. WW 2638016 Collected: 12/19/96 at 11:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

101-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

101-- SDG#: NBH16-03

CAT NO.

ANALYSIS NAME

1749 Cadmium 1751 Chromium 1753 Copper

1055 Lead (furnace method)

0173 PCBs in Water

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD **RESULTS** DETECTION LIMIT UNITS

N.D. 0.0027 mg/l N.D. 0.0043 mg/l 0.0038 mg/1 N.D. 0.0022 J 0.0012 mg/1

See Page 2

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars 07:59:35 D 0003 12 at (717) 656-2300 2 123814 547122 0.00 00010504 ASR000

712 **5**47 (4442) 1 3 3 3 141 94 17606 2423 177 (486) 2500 (434) 177 (456) 7661

Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates

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LLI Sample No. ww 2638016 Collected: 12/19/96 at 11:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

101-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

101-- SDG#: NBH16-03

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD ANALYSIS NAME

RESULTS DETECTION LIMIT UNITS

PCBs in Water

CAT

NO.

0639 PCB-1016 0640 PCB-1221 0641 PCB-1232 0642 PCB-1242 0643 PCB-1248 0644 PCB-1254 0645 PCB-1260	N.D. N.D. N.D. N.D. N.D. N.D.	0.054 0.15 0.060 0.13 0.048 0.18	ug/l ug/l ug/l ug/l ug/l ug/l
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Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

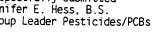
> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300

> > . १४ १८ - १६ १ ४ ४५६ राष्ट्रक १८ इंग्रेस्ट १८ १ १६५ १ १ १ १ १ १ १ १



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs

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LABORATORY CHRONICL

Page: 3 of 3

LLI Sample No. ww 2638016 Collected: 12/19/96 at 11:00 by JC

Submitted: 12/23/96

101-1296 Grab Water Sample

New Bedford Harbor, MA - USACE 101-- SDG#: NBH16-03

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

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CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749 1751 1753 1848	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/03/97 0217 01/03/97 0217 01/03/97 0217 01/02/97 1346	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
1055 5704	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	01/07/97 1415 01/04/97 0903	Elizabeth A. Tomlinson Jennifer Garrett
0173 0817	PCBs in Water Water Sample Pest. Extraction	SW-846 8081 SW-846 3510B	1	12/31/96 1512 12/24/96 0700	Donna M. Lewis Lisa J. Cooke





Page: 1 of 3

LLI Sample No. WW 2638025 Collected: 12/19/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

002-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

002-- SDG#: NBH16-09*

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

CAT METHOD NO. ANALYSIS NAME RESULTS DETECTION LIMIT UNITS 1749 Cadmium N.D. 0.0027 mg/11751 Chromium N.D. 0.0043 mg/l 1753 Copper N.D. 0.0038 mg/l N.D. 45 1055 Lead (furnace method) 0.0060 mg/l The quantitation limit for lead was increased due to the nature of the sample matrix. 0173 PCBs in Water 1. See Page 2

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 123814 547122 08:01:08 D 0003 12 0.00 00010504 ASR000

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Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates

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LLI Sample No. WW 2638025 Collected: 12/19/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

002-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

002-- SDG#: NBH16-09*

ANALYSIS NAME

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD **RESULTS** DETECTION LIMIT UNITS

PCBs in Water

CAT

NO.

0639 0640 0641 0642 0643 0644	PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	N.D. N.D. N.D. N.D. N.D. N.D.	0.054 0.15 0.060 0.13 0.048 0.18	ug/l ug/l ug/l ug/l ug/l ug/l
--	--	--	---	--

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs

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LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. WW 2638025 Collected: 12/19/96 at 14:00 by JC

Submitted: 12/23/96

002-1296 Grab Water Sample

New Bedford Harbor, MA - USACE 002-- SDG#: NBH16-09*

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

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CAT NO	ANALYSIS NAMÉ	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010A	1	01/03/97 0232	Donna R. Sackett
1751	Chromium	SW-846 6010A	1	01/03/97 0232	Donna R. Sackett
1753	Copper	SW-846 6010A	1	01/03/97 0232	Donna R. Sackett
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/02/97 1346	Christine M. Conlin
1055	Lead (furnace method)	SW-846 7421	1	01/09/97 0852	Brenda L. Buckwalter
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A		01/04/97 0903	Jennifer Garrett
0173	PCBs in Water	SW-846 8081	1	12/31/96 1826	Donna M. Lewis
0817	Water Sample Pest. Extraction	SW-846 3510B		12/24/96 0700	Lisa J. Cooke





Page: 1 of

LLI Sample No. WW 2638018 Collected: 12/19/96 at 12:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

202-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

202-- SDG#: NBH16-05

CAT

NO. ANALYSIS NAME

1749 Cadmium 1751 Chromium 1753

Copper 1055 Lead (furnace method)

0173 PCBs in Water

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD

RESULTS DETECTION LIMIT UNITS

> 0.0027 mg/1N.D. 0.0043 mg/1N.D. 0.0038 mg/1 0.0012 mg/l N.D.

1. See Page

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 07:59:55 D 0003 12 123814 547122 232 0.00 00010504 ASR000

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401 G 1914 A 1913 6.40
70 J 1914 A 1913 6.40
70 J 1914 A 1913 6.40

Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates





LLI Sample No. ww 2638018 Collected: 12/19/96 at 12:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

202-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

202-- SDG#: NBH16-05

ANALYSIS NAME

Account No: 08947 Roy F. Weston, Inc. Bldg 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD RESULTS DETECTION LIMIT UNITS

PCBs in Water

CAT

NO.

0639 PCB-1016 N.D. 0.054 ug/1 0640 PCB-1221 N.D. 0.15 ug/1 0641 PCB-1232 N.D. 0.060 ug/1 0642 PCB-1242 N.D. 0.13 ug/1 0643 PCB-1248 N.D. 0.048 ug/1 0644 PCB-1254 N.D. 0.18 ug/1 0645 PCB-1260 N.D. 0.045

ug/l Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



Respectfully Submitted Jenifer E. Hess. B.S. Group Leader Pesticides/PCBs

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LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. WW 2638018 Collected: 12/19/96 at 12:00 by JC

Submitted: 12/23/96

202-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

202-- SDG#: NBH16-05

CAT NO ANALYSIS NAME **METHOD** 1749 Cadmium SW-846 6010A SW-846 6010A 1751 Chromium 1753 Copper SW-846 6010A 1848 WW SW846 ICP Digest (tot rec) SW-846 3005A 1055 Lead (furnace method) SW-846 7421 5704 WW/TL SW 846 GFAA Digest tot SW-846 3020A 0173 PCBs in Water SW-846 8081 0817 Water Sample Pest. Extraction SW-846 3510B

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

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TRIAL	ANALYSIS DATE AND TIME	ANAL YST
_		, and the same of
1	01/03/97 0223 01/03/97 0223	Donna R. Sackett Donna R. Sackett
1	01/03/97 0223	Donna R. Sackett
1	01/02/97 1346	Christine M. Conlin
1	01/07/97 1436	Elizabeth A. Tomlinson
1	01/04/97 0903	Jennifer Garrett
1	12/31/96 1629	Donna M. Lewis
1	12/24/96 0700	Lisa J. Cooke





Page: 1 of 3

LLI Sample No. ww 2638014 Collected: 12/19/96 at 09:35 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

007-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

007-- SDG#: NBH16-01

CAT NO.

ANALYSIS NAME

1749 Cadmium

1751 Chromium 1753 Copper

1055 Lead (furnace method)

0173 PCBs in Water

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD **RESULTS** DETECTION LIMIT UNITS

N.D. 0.0027 mg/l 0.0079 J 0.0043 mg/1 N.D. 0.0038 mg/1 0.0034 0.0012 mg/l

1. See Page 2

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars 07:59:09 D 0003 12 at (717) 656-2300 123814 547122 0.00 00010504 ASR000

Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates



MEMBER
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LLI Sample No. ww 2638014 Collected: 12/19/96 at 09:35 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

007-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

007-- SDG#: NBH16-01

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

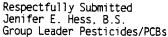
AS RECEIVED CAT METHOD NO. ANALYSIS NAME **RESULTS** DETECTION LIMIT UNITS PCBs in Water PCB-1016 0639 N.D. 0.054 ug/1 0640 PCB-1221 N.D. 0.15 ug/1 0641 PCB-1232 N.D. 0.060 ug/1 0642 PCB-1242 N.D. 0.13 ug/1 0643 PCB-1248 N.D. 0.048 ug/1 0644 PCB-1254 N.D. 0.18 ug/1 0645

PCB-1260 0.045 N.D. ug/1 Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation l'imits obtainable.

> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



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LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. ww 2638014 Collected: 12/19/96 at 09:35 by JC

Submitted: 12/23/96

007-1296 Grab Water Sample

New Bedford Harbor, MA - USACE 007-- SDG#: NBH16-01

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

The reverse order for explanation of writing cland above, lations

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010A	1	01/03/97 0204	Donna R. Sackett
1751	Chromium	SW-846 6010A	1	01/03/97 0204	Donna R. Sackett
1753	Copper	SW-846 6010A	1	01/03/97 0204	Donna R. Sackett
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/02/97 1346	Christine M. Conlin
1055	Lead (furnace method)	SW-846 7421	1	01/07/97 1343	Elizabeth A. Tomlinson
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A		01/04/97 0903	Jennifer Garrett
0173	PCBs in Water	SW-846 8081	1	12/31/96 1354	Donna M. Lewis
0817	Water Sample Pest. Extraction	SW-846 3510B		12/24/96 0700	Lisa J. Cooke





LLI Sample No. WW 2638066 Collected: 12/19/96 at 10:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

001-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-001 SDG#: NBH17-02

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

CAT NO.

0173

ANALYSIS NAME

RESULTS

N.D.

METHOD DETECTION LIMIT UNITS

1749 Cadmium

1751 Chromium 1753

Copper 1055

N.D. N.D. US N.D. Lead (furnace method)

0.0043 mg/l 0.0038 mg/l 0.0060 mg/l

0.0027

The quantitation limit for lead was increased

due to the nature of the sample matrix. PCBs in Water

1. See Page

ma/1

This sample was field filtered for dissolved metals and PCBs.

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 123814 547129 08:02:27 D 0003 12 0.00 00010504 ASR000 232







Page: 2 of 3

LLI Sample No. WW 2638066 Collected: 12/19/96 at 10:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

2/14/97 Discard:

001-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-001 SDG#: NBH17-02

ANALYSIS NAME

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD

RESULTS **DETECTION LIMIT UNITS**

PCBs in Water

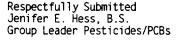
CAT

NO.

0639	PCB-1016	N.D. 0.054	ug/1
0640	PCB-1221	N.D. 0.15	ug/1
0641	PCB-1232	N.D. 0.060	ug/1
0642	PCB-1242	N.D. 0.13	ug/1
0643	PCB-1248	N.D. 0.048	ug/1
0644	PCB-1254	N.D. 0.18	ug/1
0645	PCB-1260	N.D. 0.045	ug/1

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300





LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. WW 2638066 Collected: 12/19/96 at 10:30 by JC

Submitted: 12/23/96

001-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE F-001 SDG#: NBH17-02

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433
Bldg 3701 Barnum Road
Devons MA 01433

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749 1751 1753 1848	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/09/97 0303 01/03/97 0418 01/03/97 0418 01/02/97 1349	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
1055	Lead (furnace method)	SW-846 7421	1	01/09/97 0956	Brenda L. Buckwalter
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A		01/04/97 0903	Jennifer Garrett
0173	PCBs in Water	SW-846 8081	1	01/01/97 0054	Donna M. Lewis
0817	Water Sample Pest. Extraction	SW-846 3510B		12/24/96 0700	Lisa J. Cooke







LLI Sample No. WW 2638067 Collected: 12/19/96 at 11:00 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

101-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-101 SDG#: NBH17-03

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED CAT METHOD NO. ANALYSIS NAME **RESULTS** DETECTION LIMIT UNITS 1749 Cadmium 0.0027 mq/11751 Chromium N.D. 0.0043 mg/l 1753 0.0090 J Copper 0.0038 mg/1 N.D. 1055 Lead (furnace method) $0.0060 \, \text{mg/l}$ The quantitation limit for lead was increased due to the nature of the sample matrix. 0173 PCBs in Water 1. See Page

This sample was field filtered for dissolved metals and PCBs.

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative at (717) 656-2300 123814 547129

F. Bradley Ayars 08:02:37 D 0003 0.00 00010504 ASR000







Page: 2 of

LLI Sample No. ww 2638067 Collected: 12/19/96 at 11:00 by JC

Submitted: 12/23/96 Reported: 1/14/97

2/14/97 Discard:

101-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-101 SDG#: NBH17-03

ANALYSIS NAME

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD **RESULTS** DETECTION LIMIT UNITS

PCBs in Water

CAT

NO.

0639	PCB-1016	N.D. 0.054	ug/1
0640	PCB-1221	N.D. 0.15	ug/1
0641	PCB-1232	N.D. 0.060	ug/1
0642	PCB-1242	N.D. 0.13	ug/1
0643	PCB-1248	N.D. 0.048	ug/1
0644 0645	PCB-1254 PCB-1260	N.D. 0.048 N.D. 0.18 N.D. 0.045	ug/1 ug/1 ug/1

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) $656 \cdot 2300$



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs



LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. WW 2638067 Collected: 12/19/96 at 11:00 by JC

Submitted: 12/23/96

101-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE F-101 SDG#: NBH17-03

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749 1751 1753 1848	Cadmium Chromium Copper WWW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/09/97 0307 01/03/97 0429 01/03/97 0429 01/02/97 1349	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
1055	Lead (furnace method)	SW-846 7421	1	01/09/97 1007	Brenda L. Buckwalter
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A		01/04/97 0903	Jennifer Garrett
0173	PCBs in Water	SW-846 8081	1	01/01/97 0133	Donna M. Lewis
0817	Water Sample Pest. Extraction	SW-846 3510B	1	12/24/96 0700	Lisa J. Cooke







LLI Sample No. WW 2638076 Collected: 12/19/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/14/97 Discard: 2/14/97

002-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-002 SDG#: NBH17-09*

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

, ,		AS RECE	EIVED		
CAT	ANALYGIC NAME		METHOD	** *****	
NO.	ANALYSIS NAME	RESULTS	DETECTION LIM	II UNIIS	
1749	Cadmium	N.D.	0.0027	mg/1	
1751	Chromium	N.D.	0.0043	mg/l	
1753	Copper	N.D.	0.0038	mg/l	
1055	Lead (furnace method)	0.0084 J	0.0060	mg/1	
	The quantitation limit for	lead was increased		J	
	due to the nature of the sa	mple matrix.			
0173	PCBs in Water	•	1.	See Page	2

This sample was field filtered for dissolved metals and PCBs.

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars 08:04:04 D 0003 12 at (717) 656-2300 123814 547129 0.00 00010504 ASR000 232



P.O. LL-2139-A7

Rel. 03886-118-002



Page: 2 of 3

LLI Sample No. WW 2638076 Collected: 12/19/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

002-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-002 SDG#: NBH17-09*

ANALYSIS NAME

AS RECEIVED

METHOD

RESULTS DETECTION LIMIT UNITS

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

PCBs in Water

CAT

NO.

0639	PCB-1016	N.D.	0.054	ug/1
0640	PCB-1221	N.D.	0.15	ug/l
0641	PCB-1232	N.D.	0.060	ug/1
0642	PCB · 1242	N.D.	0.13	ug/1
0643	PCB-1248	N.D.	0.048	ug/1
0644	PCB-1254	N.D.	0.18	ug/1
0645	PCB · 1260	N.D.	0.045	ug/l

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs





LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. WW 2638076 Collected: 12/19/96 at 14:00 by JC

Submitted: 12/23/96

002-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE F-002 SDG#: NBH17-09*

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	analyst
1753	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/09/97 0331 01/03/97 0446 01/03/97 0446 01/02/97 1349	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
	Lead (furnace method)	SW-846 7421	1	01/09/97 1049	Brenda L. Buckwalter
	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	01/04/97 0903	Jennifer Garrett
0173	PCBs in Water	SW-846 8081	1	01/01/97 0447	Donna M. Lewis
0817	Water Sample Pest. Extraction	SW-846 3510B		12/24/96 0700	Lisa J. Cooke







LLI Sample No. WW 2638069 Collected: 12/19/96 at 12:00 by JC

Submitted: 12/23/96 Reported: 1/14/97

2/14/97 Discard:

202-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-202 SDG#: NBH17-05

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

•		AS RECEIVED			
CAT NO.	ANALYSIS NAME	RESULTS	METHOD DETECTION LIM	IT UNITS	
1749	Cadmium	N.D.	0.0027	mq/l	
1751	Chromium	N.D.	0.0043	mq/l	
1753	Copper	N.D.	0.0038	mq/1	
1055	Lead (furnace method)	N.D.	0.0012	mq/1	
0173	PCBs in Water		1.	See Page	2

This sample was field filtered for dissolved metals and PCBs.

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO Data Package Group 1 COPY TO

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars 08:02:57 D 0003 12 at (717) 656-2300 123814 547129 232 0.00 00010504 ASR000









Page: 2 of 3

LLI Sample No. WW 2638069 Collected: 12/19/96 at 12:00 by JC

Submitted: 12/23/96 Reported: 1/14/97

2/14/97 Discard:

202-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

limits obtainable.

F-202 SDG#: NBH17-05

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

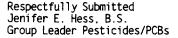
P.O. LL-2139-A7 Rel. 03886-118-002

CAT	AS RECEIVED METHOD									
NO.	ANALYSIS	NAME				RESULTS	DETE	ECTION LIM	IIT UNITS	
PCBs	in Water	•								
0639 0640 0641 0642 0643 0644 0645	PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	nsufficient	samole	ci za	we were	N.D. N.D. N.D. N.D. N.D.	roport	0.054 0.15 0.060 0.13 0.048 0.18 0.045	ug/1 ug/1 ug/1 ug/1 ug/1 ug/1	
	Due to II	isur i icient	sampre	size,	we were	e unable to	report	our usual		

quantitation limits. The values reported represent the lowest quantitation

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300







Andlysis Repo

LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. WW 2638069 Collected: 12/19/96 at 12:00 by JC

Submitted: 12/23/96

202-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE F-202 SDG#: NBH17-05

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1753	Cadmium	SW-846 6010A	1	01/09/97 0313	Donna R. Sackett
	Chromium	SW-846 6010A	1	01/03/97 0435	Donna R. Sackett
	Copper	SW-846 6010A	1	01/03/97 0435	Donna R. Sackett
	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/02/97 1349	Christine M. Conlin
	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	01/07/97 1717 01/04/97 0903	Elizabeth A. Tomlinson Jennifer Garrett
0173	PCBs in Water	SW-846 8081	1	01/01/97 0250	Donna M. Lewis
0817	Water Sample Pest. Extraction	SW-846 3510B		12/24/96 0700	Lisa J. Cooke







LLI Sample No. WW 2638075 Collected: 12/19/96 at 14:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

2/14/97 Discard:

003-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-003 SDG#: NBH17-08

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

CAT		METHOD					
NO.	ANALYSIS NAME	RESULTS	DETECTION LIM	IIT UNITS			
1749	Cadmium	0.0043	0.0027	mg/l			
1751	Chromium	N.D.	0.0043	mq/l			
1753	Copper	0.0230	0.0038	mq/l			
1055	Lead (furnace method)	0.0062	0.0060	moj/l			
	The quantitation limit for lead was incr	eased					
	due to the nature of the sample matrix.						
0173	PCBs in Water		1.	See Page	2		

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 $08\!:\!03\!:\!54$ D 0003 12 123814 547129 0.00 00010504 ASR000







2 of Page:

LLI Sample No. WW 2638075 Collected: 12/19/96 at 14:30 by JC

Submitted: 12/23/96 Reported: 1/14/97 Discard: 2/14/97

003-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-003 SDG#: NBH17-08

ANALYSIS NAME

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD RESULTS DETECTION LIMIT UNITS

PCBs in Water

CAT

NO.

0639 0640 0641 0642	PCB-1016 PCB-1221 PCB-1232 PCB-1242	N.D. 0.054 N.D. 0.15 N.D. 0.060 N.D. 0.13	ug/l ug/l ug/l ug/l
0643	PCB-1248	N.D. 0.048	ug/1
0644	PCB-1254	N.D. 0.18	ug/1
0645	PCB-1260	N.D. 0.045	ug/1

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs

Server de financial et al. Industrial de després de la companie de



Lancaster Laboratories A division of Thermo Analytical Inc.

LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638075 Collected: 12/19/96 at 14:30 by JC

Submitted: 12/23/96

003-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE F-003 SDG#: NBH17-08

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/09/97 0327 01/03/97 0442 01/03/97 0442 01/02/97 1349	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	01/09/97 1039 01/04/97 0903	Brenda L. Buckwalter Jennifer Garrett
0173 0817	PCBs in Water Water Sample Pest. Extraction	SW-846 8081 SW-846 3510B	1 1	01/01/97 0408 12/24/96 0700	Donna M. Lewis Lisa J. Cooke

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433







LLI Sample No. ww $2638070\,$ Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/14/97 Discard: 2/14/97

004-1296 Unspiked Filtered Grab Water Sample

New Bedford Harbor, MA - USACE F-004 SDG#: NBH17-06BKG

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

-		AS RECEI	VED		
CAT			METHOD		
NO.	ANALYSIS NAME	RESULTS DI	ETECTION LIM	IIT UNITS	
1749	Cadmium	N.D.	0.0027	mq/l	
1751	Chromium	N.D.	0.0043		
1753	Copper	N.D.	0.0038	mg/l	
1055	Lead (furnace method)	0.0093 J	0.0060	mg/l	
	The quantitation limit for lead was	increased		•	
	due to the nature of the sample mat	rix.			
0173	PCBs in Water		1.	See Page	2

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO 1 COPY TO Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 08:03:07 D 0003 12 123814 547129 0.00 00010504 ASR000





Page: 2 of 3

LLI Sample No. WW 2638070 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

004-1296 Unspiked Filtered Grab Water Sample

New Bedford Harbor, MA - USACE F-004 SDG#: NBH17-06BKG

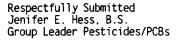
Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

CAT	AS RECEIVED METHOD				
CAT NO.	ANALYSIS	NAME	RESULTS	DETECTION LIMIT UNITS	
PCBs	in Water				
0639	PCB-1016		N.D.	0.054 ug/1	
0640	PCB-1221		N.D.	0.15 ug/l	
0641	PCB-1232		N.D.	0.060 ug/1	
0642	PCB-1242		N.D.	0.13 ug/1	
0643	PCB-1248	•	N.D.	0.048 ug/1	
0644	PCB-1254		N.D.	0.18 ug/l	
0645	PCB-1260		N.D.	0.045 ug/l	

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300









LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. WW 2638070 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96

004-1296 Unspiked Filtered Grab Water Sample

New Bedford Harbor, MA - USACE F-004 SDG#: NBH17-06BKG

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749 1751 1753 1848	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1 1 2	01/10/97 2248 01/03/97 0354 01/03/97 0354 01/02/97 1349 01/09/97 1245	Tara L. Linville Donna R. Sackett Donna R. Sackett Christine M. Conlin Christine M. Conlin
	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	01/09/97 0903 01/04/97 0903	Brenda L. Buckwalter Jennifer Garrett
0173 0817	PCBs in Water Water Sample Pest. Extraction	SW-846 8081 SW-846 3510B	1	01/06/97 2202 12/24/96 0700	Michael Kielb Lisa J. Cooke







LLI Sample No. ww 2638072 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

004-1296 Matrix Spike Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-004 SDG#: NBH17-06MS

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

CAT		AS RECEIVED METHOD			
NO.	ANALYSIS NAME	RESULTS	DETECTION LIM	IT UNITS	
1749 1751 1753 1055		0.047 0.184 0.234 0.035	0.0027 0.0043 0.0038 0.0060	mg/l mg/l mg/l mg/l	
0173	The quantitation limit for lead was due to the nature of the sample may PCBs in Water		1.	See Page	2

This sample was field filtered for dissolved metals and PCBs.

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 08:03:25 D 0003 12 123814 547129 0.00 00010504 ASR000







2 of Page:

LLI Sample No. ww 2638072 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

004-1296 Matrix Spike Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-004 SDG#: NBH17-06MS

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

AS RECEIVED

P.O. LL-2139-A7 Rel. 03886-118-002

CAT NO. ANALYSIS NAME	RESULTS	METHOD DETECTION LIMIT UNITS		
PCBs in Water				
0639 PCB-1016	4.4	0.054 ug/l		

0640 PCB - 1221 N.D. 0.15 ug/1 0641 PCB-1232 N.D. 0.060 ug/1 0642 PCB-1242 N.D. 0.13 ug/1 0643 PCB-1248 N.D. 0.048 ug/1 0644 PCB-1254 N.D. 0.18 ug/1 4.8 0645 PCB-1260 0.045

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs

Analysis Repo

LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. WW 2638072 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96

004-1296 Matrix Spike Filtered Grab Water Sample

New Bedford Harbor, MA - USACE F-004 SDG#: NBH17-06MS

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1751 1753	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/09/97 0253 01/03/97 0405 01/03/97 0405 01/02/97 1349	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	01/09/97 0935 01/04/97 0903	Brenda L. Buckwalter Jennifer Garrett
	PCBs in Water Water Sample Pest. Extraction	SW-846 8081 SW-846 3510B	1	01/06/97 2044 12/24/96 0700	Michael Kielb Lisa J. Cooke







LLI Sample No. WW 2638073 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

2/14/97 Discard:

004-1296 Matrix Spike Duplicate Filtered Grab

Water Sample

New Bedford Harbor, MA - USACE

F-004 SDG#: NBH17-06MSD

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

·	55. 55dy. 115.117. 551.55	AS RE	CEIVED		
CAT NO.	ANALYSIS NAME	RESULTS	METHOD DETECTION LIM	IT UNITS	
1749 1751	Cadmium Chromium	0.048 0.185	0.0027 0.0043	mg/l mg/l	
1753 1055	Copper Lead (furnace method) The quantitation limit for lead		0.0038 0.0060	mg/l mg/l	
0173	due to the nature of the sample PCBs in Water	e matrix.	1	See Page	2

This sample was field filtered for dissolved metals and PCBs.

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative F. Bradley Ayars 08:03:35 D 0003 12 at (717) 656-2300 123814 547129 0.00 00010504 ASR000 232







Page: 2 of

LLI Sample No. ww 2638073 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

2/14/97 Discard:

004-1296 Matrix Spike Duplicate Filtered Grab

Water Sample

New Bedford Harbor, MA - USACE

F-004 SDG#: NBH17-06MSD

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

CAT METHOD NO. ANALYSIS NAME DETECTION LIMIT UNITS RESULTS

PCBs in Water

0639	PCB-1016	4.3	0.054	uq/1
0640	PCB-1221	N.D.	0.15	ug/1
0641	PCB-1232	N.D.	0.060	uq/1
0642	PCB-1242	N.D.	0.13	ug/1
0643	PCB-1248	N.D.	0.048	ug/1
0644	PCB-1254	N.D.	0.18	ug/1
0645	PCB-1260	4 4	0 045	บด/1

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs

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Andlysis kee

LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. WW 2638073 Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96

004-1296 Matrix Spike Duplicate Filtered Grab

Water Sample

New Bedford Harbor, MA - USACE F-004 SDG#: NBH17-06MSD

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749 1751 1753 1848	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/09/97 0256 01/03/97 0408 01/03/97 0408 01/02/97 1349	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	01/09/97 0945 01/04/97 0903	Brenda L. Buckwalter Jennifer Garrett
0173 0817	PCBs in Water Water Sample Pest. Extraction	SW-846 8081 SW-846 3510B	1	01/06/97 2123 12/24/96 0700	Michael Kielb Lisa J. Cooke







LLI Sample No. WW 2638074 Collected: 12/20/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/14/97

2/14/97 Discard:

005-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-005 SDG#: NBH17-07

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

CAT		AS RECEIVED			
		7.4	METHOD		
NO.	ANALYSIS NAME	RESULTS	DETECTION LIM	IT UNITS	
1749	Cadmium	N.D.	0.0027	mg/l	
1751	Chromium	N.D.	0.0043	mg/l	
1753	Copper	N.D.	0.0038	mg/l	
1055	Lead (furnace method)	N.D.	0.0012	mg/1	
0173	PCBs in Water		1.	See Page	2

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc. 1 COPY TO Roy F. Weston, Inc. 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

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Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 08:03:44 D 0003 12 123814 547129 232 0.00 00010504 ASR000





2 of Page: 3

LLI Sample No. WW 2638074 Collected: 12/20/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/14/97

2/14/97 Discard:

005-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-005 SDG#: NBH17-07

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD ANALYSIS NAME **RESULTS** DETECTION LIMIT UNITS

PCBs in Water

CAT NO.

0639	PCB-1016	N.D.	0.054	ug/1
0640	PCB-1221	N.D.	0.15	ug/1
0641	PCB-1232	N.D.	0.060	ug/l
0642	PCB-1242	N.D.	0.13	ug/l
0643	PCB-1248	N.D.	0.048	ug/l
0644	PCB-1254	N.D.	0.18	ug/1
0645	PCB-1260	N.D.	0.045	ug/1

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs



LABORATORY CHRONICLE

3 of 3 Page:



LLI Sample No. WW 2638074 Collected: 12/20/96 at 14:00 by JC

Submitted: 12/23/96

005-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE F-005 SDG#: NBH17-07

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1751 1753	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1 1	01/09/97 0324 01/03/97 0439 01/03/97 0439 01/02/97 1349	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	01/07/97 1728 01/04/97 0903	Elizabeth A. Tomlinson Jennifer Garrett
0173 0817	PCBs in Water Water Sample Pest. Extraction	SW-846 8081 SW-846 3510B	1	01/06/97 2241 12/24/96 0700	Michael Kielb Lisa J. Cooke







LLI Sample No. WW 2638068 Collected: 12/19/96 at 11:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

006-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-006 SDG#: NBH17-04

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

AS RECEIVED

P.O. LL-2139-A7 Rel. 03886-118-002

METHOD CAT NO. ANALYSIS NAME RESULTS DETECTION LIMIT UNITS 1749 Cadmium N.D. 0.0027 mg/1 0.0043 mg/1 1751 N.D. Chromium 0.0038 mg/1 1753 Copper N.D. N.D. 0.0060 mg/1 1055 Lead (furnace method) The quantitation limit for lead was increased due to the nature of the sample matrix. 0173 PCBs in Water 1. See Page 2

This sample was field filtered for dissolved metals and PCBs.

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO Data Package Group 1 COPY TO

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

Questions? Contact your Client Services Representative at (717) 656-2300 F. Bradley Ayars 08:02:46 Ď 0003 12 123814 547129 0.00 00010504 ASR000 232

MEMBER



Page: 2 of 3

LLI Sample No. WW 2638068 Collected: I2/19/96 at 11:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

2/14/97 Discard:

006-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-006 SDG#: NBH17-04

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD CAT NO. ANALYSIS NAME RESULTS DETECTION LIMIT UNITS

PCBs in Water

0639	PCB-1016	N.D. 0.054	ug/1
0640	PCB-1221	N.D. 0.15	ug/1
0641	PCB-1232	N.D. 0.060	ug/1
0642	PCB-1242	N.D. 0.13	ug/1
0643	PCB-1248	N.D. 0.048	ug/1
0644	PCB-1254	N.D. 0.18	ug/1
0645	PCB-1260	N.D. 0.045	ug/1

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported assets the sample size were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

> Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300 at (717) 656-2300



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs



Analysis Rep

LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. WW 2638068 Collected: 12/19/96 at 11:30 by JC

Submitted: 12/23/96

006-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE F-006 SDG#: NBH17-04

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749 1751 1753 1848		SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	01/09/97 0310 01/03/97 0432 01/03/97 0432 01/02/97 1349	Donna R. Sackett Donna R. Sackett Donna R. Sackett Christine M. Conlin
	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	01/09/97 1028 01/04/97 0903	Brenda L. Buckwalter Jennifer Garrett
0173 0817	PCBs in Water Water Sample Pest. Extraction	SW-846 8081 SW-846 3510B	1	01/01/97 0212 12/24/96 0700	Donna M. Lewis Lisa J. Cooke







LLI Sample No. WW 2638065 Collected: 12/19/96 at 09:35 by JC

Submitted: 12/23/96 Reported: 1/14/97

2/14/97 Discard:

007-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE F-007 SDG#: NBH17-01

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED CAT METHOD DETECTION LIMIT UNITS NO. ANALYSIS NAME RESULTS 1749 Cadmium N.D. 0.0027 mg/l0.0043 mg/l N.D. 1751 Chromium 1753 N.D. 0.0038 mg/1 Copper 1055 Lead (furnace method) N.D. 0.0012 mg/lSee Page 0173 PCBs in Water 2

This sample was field filtered for dissolved metals and PCBs.

Roy F. Weston, Inc. Roy F. Weston, Inc. 1 COPY TO 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher ATTN: Mr. James Chow

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Questions? Contact your Client Services Representative F. Bradley Ayars 08:02:10 D 0003 12 at (717) 656-2300 123814 547129 232 0.00 00010504 ASR000







Page: 2 of

LLI Sample No. WW 2638065 Collected: 12/19/96 at 09:35 by JC

Submitted: 12/23/96 Reported: 1/14/97

2/14/97 Discard:

007-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-007 SDG#: NBH17-01

ANALYSIS NAME

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD RESULTS **DETECTION LIMIT UNITS**

PCBs in Water

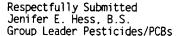
CAT NO.

0639 0640 0641	PCB-1016 PCB-1221 PCB-1232	N.D. 0.054 N.D. 0.15 N.D. 0.060	ug/l ug/l ug/l
0642	PCB - 1242	N.D. 0.13	ug/l
0643	PCB-1248	N.D. 0.048	ug/l
0644 0645	PCB-1254 PCB-1260	N.D. 0.18 N.D. 0.045	ug/l ug/l
0073	100.1500	N.D. V.043	uu/i

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative F. Bradley Ayars at (717) 656-2300





Analysis Repoi

LABORATORY CHRONICLE

Page: 3 of 3



LLI Sample No. WW 2638065 Collected: 12/19/96 at 09:35 by JC

Submitted: 12/23/96

007-1296 Filtered Grab Water Sample

New Redford Harbor MA USACE

New be	atora	marbor,	MA.	-
F-007	SDG#:	NBH17-	01	

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	+ + -····	SW-846 6010A	1	01/09/97 0300	Donna R. Sackett
1751		SW-846 6010A	1	01/03/97 0415	Donna R. Sackett
1753		SW-846 6010A	1	01/03/97 0415	Donna R. Sackett
1848		SW-846 3005A	1	01/02/97 1349	Christine M. Conlin
	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	01/07/97 1623 01/04/97 0903	Elizabeth A. Tomlinson Jennifer Garrett
0173	PCBs in Water	SW-846 8081	1	12/31/96 2258	Donna M. Lewis
0817	Water Sample Pest. Extraction	SW-846 3510B		12/24/96 0700	Lisa J. Cooke

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433





Roy F. Weston, Inc. 7 Eagle Square Concord. New Hampshire 03301-4991 603-228-1334 • Fax 603-228-3440

FACSIMILE TRANSMITTAL FAX 603-228-3110 223-3530 x 3230

913 P01

ro: Maurice Beaudoin	Recipient's Telecopy Telephone #
FROM: Pam Hookins FOTAL PAGES: 2 (Incl. sover eheat) DATE: 7/9/96	073-223-3546 Originator's Telephone # W.O. #: 03886-118-002-2090-00
COMMENTS:	
Providing quality environmental manageme areas of:	nt and consulting engineering services for over 40 years in the

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Life Sciences Strategic Environmental Management Information Management Construction/Remediation Geosciences

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RESULTS OF ROUND 4 WATER SAMPLING AT CDF 2 SAWYER STREET SITE

June 11, 1996

	Daily	Monthly	Method Detection	CDF-	2 (ug/L)
Compound/Analyte	Maximum (ug/L)	Average (ug/L)	Limit (ug/L)	Filtered	Unfiltered
PCBs				M	ND
Arochlor 1016	N/A	N/A	0.086	ND	
Arochlor 1221	N/A	N/A	0.16	ND	ND
Arochlor 1232		N/A	0.094	ND	ND
Arochlor 1242		N/A	0.048	ND	ND
		N/A	0.065	ND	ND
Arochlor 1248		N/A	0.06	0.576J	
Arochlor 1254		<u> </u>	0.07	ND	ND
Arochlor 1260		N/A	0.07	0.576J	
Total	1.3	0.71			ND
Total Suspended Solids	N/A	N/A	3,000	ND	
Cadmium	10.7	6	2.7	ND	ND
	12.8	7.1	4.3	ND	ND
Chromium	14.9	8.3	3.8	ND	ND
Copper	<u> </u>	4.8	1.2	ND	ND
Lead	8.5	4.8	1.2		

ND = Not Detected.

J = Value is above the Method Detection Limit, but below the Limit of Quantification.

Note: Shaded entries indicate an exceedance of a daily maximum limit.